

[Name of Document] CLAIMS

[Claim 1]

An air conditioner comprising:

an impeller including a cylindrical fan body extending in a rotational axis direction;

a casing and a stabilizer which are arranged with the impeller therebetween for guiding a gas from an inlet to an outlet;

a projection which is arranged at the leading end on the downstream side of a gas stream flowing along a surface of the stabilizer opposing the impeller and protrudes toward the impeller so as to define the shortest distance to the impeller; and

a plurality of concave portions or convex portions which is arranged on the upstream side of the projection so as to disturb the gas stream flowing along the opposing surface,

wherein positions of the concave portions or the convex portions are arranged apart in the rotational axis direction of the impeller.

[Claim 2]

The air conditioner according to Claim 1, wherein the concave portions or the convex portions are arranged at least at the leading end on the upstream side of the gas stream flowing along the opposing surface.

[Claim 3]

The air conditioner according to Claim 1 or 2, wherein the concave portions or the convex portions are formed by

juxtaposing a plurality of grooves or projections extending in a direction intersecting the gas stream flowing along the opposing surface.

[Claim 4]

The air conditioner according to Claim 3, wherein the grooves or the projections have an inclination angle in the range from 30° to 70° to the gas stream flowing along the opposing surface.

[Claim 5]

An air conditioner comprising:

an impeller including a cylindrical fan body extending in a rotational axis direction;

a casing and a stabilizer which are arranged with the impeller therebetween for guiding a gas from an inlet to an outlet; and

a plurality of projections arranged on a surface of the casing opposing the impeller so as to disturb a gas stream flowing along the opposing surface,

wherein positions of the projections are arranged apart in the rotational axis direction of the impeller.

[Claim 6]

The air conditioner according to Claim 5, wherein the projections are arranged at least above a horizontal plane including a rotational axis of the impeller.

[Claim 7]

The air conditioner according to Claim 5 or 6, wherein the projections are formed by juxtaposing a plurality of

projections extending in a direction intersecting the gas stream flowing along the opposing surface at an inclination angle in the range from 30° to 70°.